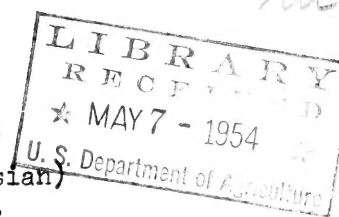


c1954



Due to our limited number of Crath Carpathian English (or Persian) walnut nursery trees, we are not issuing a new catalogue this year.

The trees we now have are of the same original stock that we sold for the Rev. Paul C. Crath of Canada from 1937 to 1943 when his supply of seed nuts was cut off by the Iron Curtain. Many of these seedlings have now come into bearing and have been under our close observation in central and western New York for several years. We have taken our grafts and seed nuts from the very best of these considering good bearing, hardiness and the size and quality of the nuts. It is a matter of common observation that both black and English walnuts come much more nearly true from seed than is the case with fruit trees.

While a considerable proportion of these trees are self-pollinating, better crops are assured if more than one tree is planted.

We have never had much success in transplanting large walnut trees. In our experience the younger trees stand transplanting better and are likely to overtake and pass the larger ones set at the same time. One year we transplanted six hundred with a loss of only eight.

We also have a limited number of seedlings of what we call the Seneca English walnut. This is not a Crath Carpathian but the parent tree has never shown any winter injury and has produced good crops every year for the last eight years at least. The nuts are of fair size and good quality. The tree is located in central New York.

We have a limited number of grafted Crath trees on black walnut root stocks. All grafts were taken from tested and proven trees.

If you order grafted trees please state, in case we are sold out when your order is received, whether you wish your money refunded or if you wish us to substitute seedling trees and refund the difference in price.

Shipments made either by express or parcel post F.O.B., Ithaca, New York.

Trees are two years old and 18 to 24 inches in height.

| | |
|-----------------------|-------------|
| Crath grafted trees | \$4.00 each |
| Crath seedling trees | 3.00 each |
| Seneca seedling trees | 2.50 each |

Terms - Cash with order or, if desired, orders will be booked for 10%--balance to be paid before the trees are shipped.
Planting instructions accompany each shipment.

SAMUEL H. GRAHAM
Bostwick Road,
Ithaca, New York

Member Northern Nut Growers' Association
Member Pennsylvania Nut Growers' Association

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained on the selective medium. The results are the mean of three independent experiments. Error bars represent the standard deviation.